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Personnel

**COMBAT ARMS TRAINING AND
MAINTENANCE (CATM) TRAINING
MANAGEMENT AND RANGE OPERATIONS**

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This manual provides procedures and guidance for CATM section management, firearms training programs, range operation and management, and weapons maintenance. It also contains facility criteria for CATM facilities. Use it in conjunction with Air Force Instruction (AFI) 36-2226 and Air Force Handbook (AFH) 36-2244. Attachment 1 is a list of references, acronyms, and abbreviations used in this publication. It also contains a list of Air Force Publications and Technical Orders (T.O.) to use in conjunction with AFI 36-2226, Air Force Manual (AFMAN) 36-2227, Volumes 1, 2, and 3, and AFH 36-2244. Process proposed supplements as required by AFI 37-160, Volume 2, *Air Force Publications and Forms Management Programs--Developing and Processing Publications*.

SUMMARY OF REVISIONS

This revision incorporates Interim Changes 2000-1 and 2000-2 and deletes Chapters 1, 2, 3, 4, and 5 in their entirety. Current information from these chapters is now located in AFI 36-2226, Combat Arms Program, 1 March 2000. The entire text of IC 2000-1 and 2000-2 are at the last two attachments. Changed or revised material is indicated by a bar (|).

Chapter 1**TRAINING MANAGEMENT, CATM PERSONNEL**

1.1. This chapter deleted in accordance with IC 2000-2.

Chapter 2

TRAINING PROCEDURES, FIREARMS TRAINING PROGRAMS

2.1. This chapter deleted in accordance with IC 2000-2.

Chapter 3

FACILITY CRITERIA

3.1. This chapter deleted in accordance with IC 2000-1.

Chapter 4

RANGE OPERATION AND MANAGEMENT

4.1. This chapter deleted in accordance with IC 2000-2.

Chapter 5**WEAPONS MAINTENANCE**

5.1. This chapter deleted in accordance with IC 2000-2.

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Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

The following is a complete list of publications related to Air Force Combat Arms Training and Maintenance (CATM) functions. Mandatory publications must be maintained within all CATM sections. Optional publications need not be maintained within the CATM section but must be available to CATM personnel (i.e. orderly room, base reference library, etc.) If training and or maintenance is provided for a weapon, all publications listed for that weapon, ammunition, and related equipment become mandatory.

Mandatory:**Air Force Publications**

AFI 36-2201 Enlisted Specialty Training.

AFI 36-2226 Combat Arms Training and Maintenance Program.

AFMAN 36-2227 Combat Arms Training and Maintenance Vols 1, 2, and 3

AFH 36-2244 Combat Arms Training and Maintenance Handbook.

AFPD 36-22 Military Training.

AFCAT 21-209 Ground Munitions.

AFI 31-207 Arming and Use of Force by Air Force Personnel.

AFI 31-209 The Air Force Resources Protection Program.

AFMAN 91-201 Explosive Safety Standards.

AFM 50-62 Handbook for Air Force Instructors.

Tables of Allowance

TA 538 Security Police Activities and Organizational Small Arms Equipment.

Technical Orders--Other Than Weapons and Ammunition

0-1-01 Numerical Index, Alphabetical Index, and Cross-Reference Table Technical Orders.

0-1-02 General Technical Orders.

0-1-11 Armament Equipment.

0-1-43 Simulators/Training Devices.

00-5-1 AF Technical Order System.

00-5-2 Technical Order Distribution System.

00-35D-54 USAF Material Deficiency Reporting and Investigating System.

11W-1-10 Recording of Historical Data for Ground Weapons.

43E11-1-121 Small Arms Targets and Target Material.

TM 11-5855-214-10 Operator's Manual, Night Vision Sight, AN/PVS-4 (Army)

TM 11-5855-262-10-1 Operator's Manual, Night Vision Goggle, AN/PVS-7A (Army).

Ammunition

11A1-10 General Instructions-Munitions Serviceability Procedure.

11A13-6-7 Storage and Maintenance Procedures, 40mm Cartridges.

11A13-10-7 Storage and Maintenance Procedures, Small Arms Ammunition.

11A8-2-1 Hand and Rifle Grenades, 66mm Rocket Launcher, 81mm Mortars, 90mm Recoilless Rifle, 40mm Cartridges, Flares and Signals, Smoke Pots, and Land Mines.

11A13-9-7 Storage and Maintenance Procedures - 81mm Cartridges.

M16 Series Rifles

11W3-5-5-1 Operator's Manual, Rifle, 5.56mm, M16 and M16A1.

11W3-5-5-1-1 Maintenance and Repair, Submachine Gun, 5,56mm GAU-5A, GAU-5A/A, and GUU-5P.

11W3-5-5-1-2 Operation, Maintenance, and Repair, Conversion Kit, 5.56mm Rifle and Conversion Kit Magazine.

11W3-5-5-24 Unit and Direct Support Maintenance Manual, Rifle, 5.56mm, M16 and M16A1 and Bipod, Rifle, M3.

11W3-5-5-31 Operator's and Organizational Maintenance Manual, M2 Bolt.

11W3-5-5-41 Operator's Manual, Rifle, 5.56mm, M16A2.

11W3-5-5-42 Unit and Direct Support Maintenance Manual, Rifle, 5.56mm, M16A2.

11W3-5-5-61 Rifle, 5.56mm, M16, M16A1.

11W3-5-5-81 M16A1 and M16A2 Rifle Marksmanship (Army FM 23-9).

HANDGUNS

11W3-3-3-42 Field Maintenance, Cal., .45 Automatic Pistols, M1911 and M1911A1.

11W3-3-3-54 Field and Depot Maintenance Repair Parts and Special Tools List for Caliber, .45 Automatic Pistol, M1911A1.

11W3-3-5-1 Operator's Manual Pistol, Semiautomatic, 9mm, M9.

11W3-3-5-4 Unit and Intermediate Support Maintenance Manual (Including Repair Parts and Special Tools List), Pistol, Semiautomatic, 9mm, M9.

11W3-3-3-74 Operator and Organizational Maintenance Repair Parts and Special Tools Lists and Maintenance for Caliber, .45 Automatic Pistol, M1911A1 National Match and Caliber, .45 Automatic Pistol, M1911A1 National Match with Adjustable Rear Sight.

11W3-3-3-84 Operator and Organizational Maintenance Repair Parts and Special Tool Lists, Caliber, .45 Automatic Pistol, M1911A1, with Hip Holster and Caliber, .45 Automatic Pistol, M1911A1 with Shoulder Holster.

11W3-4-2-51 Operation and Service Instruction with Illustrated Parts Breakdown for Smith and Wesson Combat Masterpiece, Caliber, .38 Revolver, Model Number 15.

11W3-3-6-1 Pistols and Revolvers (Army FM 23-35).

Pyrotechnic Pistols

11W2-9-2-31 Field and Depot Maintenance Instructions, Ground Signal Projector M1A1, Hand Pyrotechnic Projector M9, and Pyrotechnic Pistol AN-M8, with Pyrotechnic Pistol Mount, M1.

11W2-9-2-34 Field and Depot maintenance Instructions, Including Repair Parts and Special Tools List, Ground Signal Projector M1A1, Hand Pyrotechnic Projector M9, and Pyrotechnic Pistol AN-M8, with Pyrotechnic Pistol Mount, M1.

Shotguns

11W3-6-1-154 Field and Depot Maintenance Instruction. Winchester Riot-Type Shotgun M12, Stevens Riot-Type Shotguns, M520-30, M620A.

11W3-6-1-171 Shotgun, 12 Gauge, M500/590 (Army TM 9-1005-303-14).

11W3-6-2-1 Intermediate Maintenance Instructions with Illustrated Parts Breakdown Military Shotgun, 12 Gauge, Pump Action Model 870, with Adapter Part Number 32911.

M79 and M203 40mm Grenade Launchers

11W3-9-4-1 40mm Grenade Launcher, M203, Operator's Manual (Army TM 9-1010-221-10).

11W3-9-4-2 Organizational, Direct, and General Support, 40mm Grenade Launcher, M203 W/E (Army TM 9-1010-221-24).

11W3-9-2-2 Grenade Launcher, 40mm, M79 (Army TM 9-1010-205-10).

11W3-9-2-11 Grenade Launcher, 40mm, M79 (Army TM 9-1010-205-24).

Machine Guns (General)

OH 6-9 Machine Guns and Machine Gun Gunnery (Marine Corp Publication).M249 5.56mm MACHINE GUN (SAW)

11W3-5-5-51 M249, Machine Gun, 5.56mm (Army TM 9-1005-201-10).

11W3-5-5-52 M249, Machine Gun, 5.56mm (Army TM 9-1005-201-23/P).

M60 Series Machine Guns

11W1-12-8-41 Operators Manual, Machine Gun, 7.62mm M60, and 122 Tripod.

11W1-12-8-52 Organizational Maintenance Manual, Including Repair Parts and Special Tools List Machine Gun, 7.62mm, M60, W/E 1005-605-7710) and Mount, Tripod, Machine Gun, 7.62mm, M122 (1005-710-5599).

11W2-6-4-1 Operator's Manual, with Components List, for Machine Gun, 7.62mm, M60E3 and Mount, Tripod, Machine Gun 7.62mm, M122.

11W2-6-4-2 Interim Organizational and Intermediate Maintenance Manual, Machine Gun, 7.62mm, M60E3, and Mount, Tripod, M122.

11W2-6-4-11 M60 Machine Gun, 7.62mm (Army TM 9-1005-224-10).

11W2-6-4-12 M60 Machine Gun, 7.62mm (Army TM 9-1005-224-24).

11W2-6-4-14 M60 Machine Gun, 7.62mm (Army TM 9-1005-224-24P).

11W2-8-1-322 Machine Gun Mounts (Army TM 9-1005-245-14).

FM 23-67 Machine Gun, 7.62mm, M60.

M2, .50 CAL Machine Gun

11W2-6-3-161 M2, .50 Cal Machine Gun (Army TM 9-1005-213-10).

11W2-6-3-184 M2, .50 Cal Machine Gun (Army TM 9-1005-213-23P).

11W2-6-3-172 Organizational, Direct Support, and Depot Maintenance Instruction, Including Repair Parts and Special Tools List, Machine Gun, .50 Caliber Browning, M2, Heavy Barrel, and Mount.

11W2-17-4-1 M3 Recoil Amplifier, for M2, .50 Caliber Machine Gun (Army TM 9-1005-303-12&P).

11W2-6-6-1 Browning Machine Gun, Caliber, .50HB, M2 (Army FM 23-65).

MK 19 40mm Machine Gun

11W2-5-16-1 Operator's Manual and Components List, Machine Gun 40mm, MK 19 Mod 3.

11W2-5-16-2 Organizational and Intermediate Maintenance Manual, Including Repair Parts List, Machine Gun, 40mm, MK 19 Mod 3.

11W2-8-32-4 Mount, Machine Gun, MK 64 Cradle (Army TM 9-1010-231-13&P).

11W2-5-18-1 MK 19, 40mm Grenade Machine Gun, Mod 3 (Army FM 23-27).

M72A1 66mm Rocket Launcher

FM 23-33 66mm Heat Rocket, M72A1 and M72A2 (Army)

M29 81MM Mortar

11A1-1-1 Firing Tables, Mortar, 81mm, M29 and M1.

11WA1-4-3-1 Firing Tables, Mortar, 81mm, M29 and M1.

11W2-5-17-1 Mortar, 81mm, M29/M29A1 (Army TM 9-1015-200-10).

11W2-5-17-2 Mortar, 81mm, M29/M29A1 (Army TM 9-1015-200-20&P).

11W2-13-6-2 M53/M53A1 Sight Unit (Army TM 9-1240-287-34&P).

11W2-13-7-2 M45 Optical Boresight (Army TM 9-1240-278-24&P)

11W2-13-8-1 M23 Ballistic Computer (Army TM 9-1220-246-12&P).

11W2-13-8-2 M23 Ballistic Computer (Army TM 9-1220-246-34&P).

11W2-5-13-11 Operator and Organizational Maintenance Instruction, 81mm Mortar and Mounts.

11W2-5-13-21 Instruction Manual, 81mm Mortar, M29, 81mm Mortar Mounts, M23 and M23A1, 81mm Mortar Baseplate, 23 and M23A1.

11W2-5-17-12 Mortar, 81mm, M29/M29A1 (Army TM 9-1015-2000-30&P).

TM 9-1000-202-14 Evaluation of Cannon Tubes (Army).

TM 9-6650-235-13&P Operator's, Organizational, and Direct Support Maintenance Manual,for Borescope, M3 (Army). TM 9-4933-258-13&P Pullover Gauge Kit (Army).

11W2-5-17-21 Mortar Gunnery (Army FM 23-91).

M1 and M14, .30 Caliber Rifles

11W3-5-1-104 Operator, Organizational, and Field Maintenance Repair Parts and Equipment for Commercial Rifles.

11W3-5-4-4 Field Maintenance Repair Parts and Special Tools List for 7.62mm Rifle, M14, and Rifle Bipod, M2.

11W3-5-4-21 Operator and Organizational Maintenance Manual, with Repair Parts and Special Tools Lists for Rifles, 7.62mm, M14 and M14A2, and Bipod, Rifle, M2.

11W3-5-3-204 Rifle, Caliber .30, M1, M1C, M1D (Army TM 9-1005-223-12&P/1).

11W3-5-4-41 Rifle, 7.62mm, M14, M14A1 (Army TM 9-1005-223-10).

11W3-5-4-42 Rifle, 7.62mm, M14, M14A1 (Army TM 9-1005-223-20).

11W3-5-4-52 Rifle, 7.62mm, M14, M14A1 (Army TM 9-1005-223-34).

11W3-5-4-64 Rifle, 7.62mm, M14, M14A1 (Army TM 9-1005-223-12P).

M240 Series Machine Guns

11W2-6-5-1 M240, M240C, M240E1, Machine Gun, 7.62mm (Army TM 9-1005-313-10).

11W2-6-5-2 M240, M240C, M240E1, Machine Gun, 7.62mm (Army TM 9-1005-313-23P).

11W2-6-5-12 M240, M240C, M240E1, Machine Gun, 7.62mm (Army TM 9-1005-313-23).

Optional:**Department of Defense Directives**

4160.21-M-1 Defense Demilitarization Manual.

Air Force Publications

AFIND 2 Numerical Index of Standard and Recurring Air Force Publications.

AFI 34-127 Excellence in Competition (EIC).

AFI 32-9002 Use of Real Property Facilities.

AFR 124-20 Carrying Firearms by Special Agents of the Air Force Office of Special Investigations (AFOSI).

AFI 91-202 The USAF Mishap Prevention Program.

AFI 91-204 Investigating and Reporting US Air Force Mishaps.

AFI 36-2848 AF Security Police Awards Program.

AFMAN 23-110 USAF Supply Manual.

AFI 32-8004 Standard Facility Requirements.

Tables of Allowance

TA 006 Organizational and Administrative Equipment.

TA 629 Visual Information Support.

Technical Orders--Other Than Weapons and Ammunition

11W2-3-3-2 Bayonet-Knife M4, M5, M5A1, M6, M7.(Army TM 9-1005-237-23&P).

11W2-17-3-1 Blank Firing Attachment, M19 (Army TM 9-1005-314-12&P).

33K-1-100 TMDE Interval Calibration and Repair Technical Order Reference Guide and Work Unit Code.

Ammunition

11A1-42 General Instructions for Disposal of Conventional Munitions.

11A1-47 Explosive Hazard Classification Procedures.

11A1-60 Inspection of Reusable Munitions Containers and Scrap Material Generated from Items Exposed to or Containing Explosives.

Abbreviations and Acronyms

AFSC Q—Air Force Specialty Code

ANG—Air National Guard

BCE—Base Civil Engineer

CATM—Combat Arms Training and Maintenance

CE—Civil Engineer

CONUS—Continental United States

HQ USAF—Headquarters United States Air Force

MAJCOM—Major Command

N/A—Not Applicable

NCOIC—Noncommissioned Officer in Charge

OI—Operating Instruction

OJT—On-the-Job Training

PAFSC—Primary Air Force Specialty Code

STS—Specialty Training Standard

SDZ—Surface Danger Zone

TA—Table of Allowance

TDY—Temporary Duty

T.O.—Technical Order

WR—ALC Warner Robins Air Logistics Center

Attachment 2

TEXT OF IC 2000-1

10 FEBRUARY 2000

SUMMARY OF REVISIONS

This interim change (IC) 2000-1 deletes Chapter 3 in its entirety. New range facility design criteria is published in Air Force Engineering Technical Letter (ETL) 00-4, Small Arms Range Design and Construction for Range Criteria or Standards.

CHAPTER 3 DELETED

Attachment 3**TEXT OF IC 2000-2****31 MARCH 2000*****SUMMARY OF REVISIONS***

This interim change (IC) 2000-2 deletes Chapters 1, 2, 4, and 5 in their entirety. Current information from these chapters is now located in AFI 36-2226, Combat Arms Program, 1 March 2000.

CHAPTERS 1, 2, 4, AND 5 DELETED.